Ohyun Kwon

List of Publications by Year
in descending order

88 papers	7,742 citations	61857 43 h-index	53109 85 g-index
99 all docs	99 docs citations	99 times ranked	3996 citing authors

#	Article	IF	Citations
1	Phosphine Organocatalysis. Chemical Reviews, 2018, 118, 10049-10293.	23.0	704
2	Phosphine catalysis of allenes with electrophiles. Chemical Society Reviews, 2014, 43, 2927-2940.	18.7	470
3	An Expedient Phosphine-Catalyzed [4 + 2] Annulation:â€‰ Synthesis of Highly Functionalized Tetrahydropyridines. Journal of the American Chemical Society, 2003, 125, 4716-4717.	6.6	436
4	Advances in nucleophilic phosphine catalysis of alkenes, allenes, alkynes, and MBHADs. Chemical Communications, 2013, 49, 11588.	2.2	379
5	Phosphine-Catalyzed [4 + 2] Annulation:â€‰ Synthesis of Cyclohexenes. Journal of the American Chemical Society, 2007, 129, 12632-12633.	6.6	318
6	Phosphine-Catalyzed Annulations of Azomethine Imines: Allene-Dependent [3 + 2], [3 + 3], [4 + 3], and [3 + 2 + 3] Pathways. Journal of the American Chemical Society, 2011, 133, 13337-13348.	6.6	296
7	Chiral phosphines in nucleophilic organocatalysis. Beilstein Journal of Organic Chemistry, 2014, 10, 2089-2121.	1.3	258
8	An Application of the Phosphine-Catalyzed [4 + 2] Annulation in Indole Alkaloid Synthesis:â€‰ Formal Syntheses of (Â±)-Alstonerine and (Â±)-Macroline. Organic Letters, 2005, 7, 4289-4291.	2.4	196
9	Small-Molecule Inhibitors of Protein Geranylgeranyltransferase Type I. Journal of the American Chemical Society, 2007, 129, 5843-5845.	6.6	196
10	Phosphine-Promoted [3 + 3] Annulations of Aziridines With Allenoates: Facile Entry Into Highly Functionalized Tetrahydropyridines. Journal of the American Chemical Society, 2009, 131, 6318-6319.	6.6	195
11	Phosphine triggered [3+2] allenoateâ€“acrylate annulation: a mechanistic enlightenment. Tetrahedron Letters, 2007, 48, 3617-3620.	0.7	172
12	Hydroxyproline-Derived Pseudoenantiomeric [2.2.1] Bicyclic Phosphines: Asymmetric Synthesis of (+)- and (âˆ’)-Pyrrolines. Journal of the American Chemical Society, 2014, 136, 11890-11893.	6.6	166
13	Phosphine-Catalyzed Synthesis of Highly Functionalized Coumarins. Organic Letters, 2007, 9, 3069-3072.	2.4	163
14	Phosphine-Catalyzed Synthesis of 6-Substituted 2-Pyrones:â€‰ Manifestation ofE/Z-Isomerism in the Zwitterionic Intermediate. Organic Letters, 2005, 7, 2977-2980.	2.4	158
15	Phosphorus-Based Catalysis. ACS Central Science, 2021, 7, 536-558.	5.3	157
16	Bisphosphine-Catalyzed Mixed Double-Michael Reactions:Â Asymmetric Synthesis of Oxazolidines, Thiazolidines, and Pyrrolidines. Journal of the American Chemical Society, 2007, 129, 12928-12929.	6.6	153
17	Phosphine-Catalyzed Synthesis of 1,3-Dioxan-4-ylidenes. Organic Letters, 2005, 7, 1387-1390.	2.4	146
18	Theoretical Rationale for Regioselection in Phosphine-Catalyzed Allenoate Additions to Acrylates, Imines, and Aldehydes. Organic Letters, 2006, 8, 3643-3646.	2.4	143

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19	Stable Tetravalent Phosphonium Enolate Zwitterions. Journal of the American Chemical Society, 2007, 129, 6722-6723.	6.6	140
20	Enantioselective total synthesis of (+)-ibophyllidine via an asymmetric phosphine-catalyzed [3 + 2] annulation. Chemical Science, 2012, 3, 2510.	3.7	125
21	Skeletal Diversity via a Branched Pathway:Â Efficient Synthesis of 29Â400 Discrete, Polycyclic Compounds and Their Arraying into Stock Solutions. Journal of the American Chemical Society, 2002, 124, 13402-13404.	6.6	124
22	Alcohol-Assisted Phosphine Catalysis:â€‰ One-Step Syntheses of Dihydropyrones from Aldehydes and Allenoates. Organic Letters, 2008, 10, 429-432.	2.4	119
23	A highly diastereoselective synthesis of 3-carbethoxy-2,5-disubstituted-3-pyrrolines by phosphine catalysis. Tetrahedron, 2005, 61, 6276-6282.	1.0	118
24	Catalytic Asymmetric Total Synthesis of (âˆ')-Actinophyllic Acid. Journal of the American Chemical Society, 2016, 138, 3298-3301.	6.6	113
25	Phosphineâ€Catalyzed [3+2] and [4+3]â€‰Annulation Reactions of C,Nâ€Cyclic Azomethine Imines with Allenoates. Advanced Synthesis and Catalysis, 2012, 354, 1023-1034.	2.1	110
26	Intramolecular Crossed [2+2] Photocycloaddition through Visible Light-Induced Energy Transfer. Journal of the American Chemical Society, 2017, 139, 9807-9810.	6.6	103
27	One-Pot Phosphine-Catalyzed Syntheses of Quinolines. Journal of Organic Chemistry, 2012, 77, 8257-8267.	1.7	84
28	Inhibitors of Protein Geranylgeranyltransferase I and Rab Geranylgeranyltransferase Identified from a Library of Allenoate-derived Compounds. Journal of Biological Chemistry, 2008, 283, 9571-9579.	1.6	79
29	Phosphine-Initiated General Base Catalysis: Facile Access to Benzannulated 1,3-Diheteroatom Five-Membered Rings via Double-Michael Reactions of Allenes. Organic Letters, 2011, 13, 5420-5423.	2.4	79
30	Total Synthesis of (Â±)-Hirsutine: Application of Phosphine-Catalyzed Imineâ€"Allene [4 + 2] Annulation. Organic Letters, 2012, 14, 4634-4637.	2.4	75
31	Hydrodealkenylative C(sp ³)â€"C(sp ²) bond fragmentation. Science, 2019, 364, 681-685.	6.0	75
32	<i>In vivo</i> antitumor effect of a novel inhibitor of protein geranylgeranyltransferase-I. Molecular Cancer Therapeutics, 2009, 8, 1218-1226.	1.9	72
33	Diphosphine-Catalyzed Mixed Double-Michael Reaction: A Unified Synthesis of Indolines, Dihydropyrrolopyridines, Benzimidazolines, Tetrahydroquinolines, Tetrahydroisoquinolines, Dihydrobenzo-1,4-oxazines, and Dihydrobenzo-3,1-oxazines. Organic Letters, 2010, 12, 1084-1087.	2.4	69
34	Mitochondrial Ca2+ uptake by the voltage-dependent anion channel 2 regulates cardiac rhythmicity. ELife, 2015, 4, .	2.8	67
35	A Torquoselective 6Ï€ Electrocyclization Approach to Reserpine Alkaloids. Organic Letters, 2012, 14, 5388-5391.	2.4	66
36	Catalytic Asymmetric Staudingerâ€"aza-Wittig Reaction for the Synthesis of Heterocyclic Amines. Journal of the American Chemical Society, 2019, 141, 9537-9542.	6.6	60

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37	Phosphine-Catalyzed Î²â€²-Umpolung Addition of Nucleophiles to Activated Î±-Alkyl Allenes. Organic Letters, 2011, 13, 2586-2589.	2.4	59
38	Aplexone targets the HMG-CoA reductase pathway and differentially regulates arteriovenous angiogenesis. Development (Cambridge), 2011, 138, 1173-1181.	1.2	59
39	Diversity Through a Branched Reaction Pathway: Generation of Multicyclic Scaffolds and Identification of Antimigratory Agents. Chemistry - A European Journal, 2011, 17, 649-654.	1.7	57
40	Phosphine/Palladium-Catalyzed Syntheses of Alkylidene Phthalans, 3-Deoxyisoochracinic Acid, Isoochracinic Acid, and Isoochracinol. Organic Letters, 2012, 14, 3264-3267.	2.4	56
41	Phosphineâ€Catalyzed [4+2] Annulations of 2â€Alkylallenoates and Olefins: Synthesis of Multisubstituted Cyclohexenes. Chemistry - an Asian Journal, 2011, 6, 2101-2106.	1.7	53
42	Theory-guided design of BrÃ¸nsted acid-assisted phosphine catalysis: synthesis of dihydropyrones from aldehydes and allenoates. Tetrahedron, 2008, 64, 6935-6942.	1.0	50
43	Carvone-Derived P-Stereogenic Phosphines: Design, Synthesis, and Use in Alleneâ€“Imine [3 + 2] Annulation. ACS Catalysis, 2018, 8, 5188-5192.	5.5	49
44	Bridged [2.2.1] bicyclic phosphine oxide facilitates catalytic Î³-umpolung additionâ€“Wittig olefination. Chemical Science, 2018, 9, 1867-1872.	3.7	48
45	Diversity through phosphine catalysis identifies octahydro-1,6-naphthyridin-4-ones as activators of endothelium-driven immunity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6769-6774.	3.3	43
46	Nucleophilic Chiral Phosphines: Powerful and Versatile Catalysts for Asymmetric Annulations. Aldrichimica Acta, 2016, 49, 3-13.	4.0	43
47	Equilibrium between a vinylogous ylide and a phosphonium dienolate zwitterion: vinylogous Wittig olefination versus vinylogous aldol-type reaction. Tetrahedron, 2010, 66, 4760-4768.	1.0	41
48	Phosphine-Mediated Iterative Arene Homologation Using Allenes. Journal of the American Chemical Society, 2015, 137, 11258-11261.	6.6	40
49	Selective Inhibitor of Platelet-Activating Factor Acetylhydrolases 1b2 and 1b3 That Impairs Cancer Cell Survival. ACS Chemical Biology, 2015, 10, 925-932.	1.6	39
50	Suppression of Arrhythmia by EnhancingÂMitochondrial Ca2+ Uptake inÂCatecholaminergic Ventricular Tachycardia Models. JACC Basic To Translational Science, 2017, 2, 737-747.	1.9	35
51	Unified Approach to Furan Natural Products via Phosphineâ€Palladium Catalysis. Angewandte Chemie - International Edition, 2021, 60, 8874-8881.	7.2	35
52	Synthesis of Functionalized Alkylidene Indanes and Indanones through Tandem Phosphineâ€“Palladium Catalysis. Organic Letters, 2015, 17, 2058-2061.	2.4	33
53	Phosphine-Catalyzed Î±-Umpolungâ€“Aldol Reaction for the Synthesis of Benzo[b]azapin-3-ones. Organic Letters, 2019, 21, 5143-5146.	2.4	33
54	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. ACS Central Science, 2018, 4, 1727-1741.	5.3	32

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55	Jagged1 Instructs Macrophage Differentiation in Leprosy. PLoS Pathogens, 2016, 12, e1005808.	2.1	32
56	Phosphine-catalyzed intramolecular Î³-umpolung addition of Î±-aminoalkylallenic esters: facile synthesis of 3-carbethoxy-2-alkyl-3-pyrrolines. Chemical Communications, 2012, 48, 5373.	2.2	31
57	Synthesis of nitrodienes, nitrostyrenes, and nitrobiaryls through palladium-catalyzed couplings of Î²-nitrovinyl and o-nitroaryl thioethers. Chemical Science, 2013, 4, 2670.	3.7	29
58	Nazarov cyclization of 1,4-pentadien-3-ols: preparation of cyclopenta[b]indoles and spiro[indene-1,4â€²-quinoline]s. Chemical Communications, 2016, 52, 2811-2814.	2.2	29
59	In vitro and in vivo effects of geranylgeranyltransferase I inhibitor P61A6 on non-small cell lung cancer cells. BMC Cancer, 2013, 13, 198.	1.1	28
60	Catalytic Enantioselective Synthesis of Guvacine Derivatives through [4 + 2] Annulations of Imines with Î±-Methylallenoates. Organic Letters, 2018, 20, 6089-6093.	2.4	28
61	Nucleophilic Phosphine Catalysis: The Untold Story. Asian Journal of Organic Chemistry, 2021, 10, 2699-2708.	1.3	26
62	Dealkenylative Thiylation of C(sp³)â€“C(sp²) Bonds. Organic Letters, 2019, 21, 8592-8597.	2.4	25
63	Diversity-Oriented Synthesis Based on the DPPP-Catalyzed Mixed Double-Michael Reactions of Electron-Deficient Acetylenes and Î²-Amino Alcohols. Molecules, 2011, 16, 3802-3825.	1.7	24
64	Chiral Aminophosphines as Catalysts for Enantioselective Double-Michael Indoline Syntheses. Molecules, 2012, 17, 5626-5650.	1.7	24
65	Dealkenylative Alkenylation: Formal Ïƒâ€Bond Metathesis of Olefins. Angewandte Chemie - International Edition, 2020, 59, 17565-17571.	7.2	24
66	Cardiac-specific deletion of voltage dependent anion channel 2 leads to dilated cardiomyopathy by altering calcium homeostasis. Nature Communications, 2021, 12, 4583.	5.8	24
67	Stereoselective syntheses of Î±,Î²-unsaturated Î³-amino esters through phosphine-catalyzed Î³-umpolung additions of sulfonamides to Î³-substituted allenoates. Tetrahedron Letters, 2015, 56, 3273-3276.	0.7	21
68	Phosphine-Catalyzed Intramolecular Cyclizations of Î±-Nitroethylallenoates Forming (<i>Z</i>)-Furanone Oximes. Organic Letters, 2016, 18, 2954-2957.	2.4	19
69	Identification and Characterization of Mechanism of Action of P61-E7, a Novel Phosphine Catalysis-Based Inhibitor of Geranylgeranyltransferase-I. PLoS ONE, 2011, 6, e26135.	1.1	17
70	Flow Cytometry Enables a High-Throughput Homogeneous Fluorescent Antibody-Binding Assay for Cytotoxic T Cell Lytic Granule Exocytosis. Journal of Biomolecular Screening, 2013, 18, 420-429.	2.6	17
71	Oxodealkenylative Cleavage of Alkene C(sp³)âˆ’C(sp²) Bonds: A Practical Method for Introducing Carbonyls into Chiral Pool Materials. Angewandte Chemie - International Edition, 2020, 59, 1211-1215.	7.2	17
72	A concise synthesis of the functionalized [5â€“7â€“6] tricyclic skeleton of guanacastepene A. Tetrahedron Letters, 2004, 45, 8843-8846.	0.7	16

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73	The antiarrhythmic compound efsevin directly modulates voltageâ€dependent anion channel 2 by binding to its inner wall and enhancing mitochondrial Ca 2+ uptake. British Journal of Pharmacology, 2020, 177, 2947-2958.	2.7	15
74	Phosphineâ€Catalyzed [4+2] Annulation: Synthesis of Ethyl 6â€Phenylâ€1â€Tosylâ€1,2,5,6â€Tetrahydropyridineâ€3â€Carboxylate. , 2009, 2009, 212-224.		15
75	Phosphineâ€Initiated Generalâ€Baseâ€Catalyzed Quinolone Synthesis. Asian Journal of Organic Chemistry, 2014, 3, 453-457.	1.3	12
76	Highly efficient palladium-catalyzed hydrostannation of ethyl ethynyl ether. Tetrahedron Letters, 2008, 49, 7097-7099.	0.7	9
77	Nanoformulation of Geranylgeranyltransferase-I Inhibitors for Cancer Therapy: Liposomal Encapsulation and pH-Dependent Delivery to Cancer Cells. PLoS ONE, 2015, 10, e0137595.	1.1	9
78	Phosphine-promoted [4 + 3] annulation of allenoate with aziridines for synthesis of tetrahydroazepines: phosphine-dependent [3 + 3] and [4 + 3] pathways. RSC Advances, 2019, 9, 1214-1221.	1.7	9
79	Phosphineâ€Catalyzed (4+1) Annulation: Rearrangement of Allenylic Carbamates to 3â€Pyrrolines through Phosphonium Diene Intermediates. ChemCatChem, 2020, 12, 4352-4372.	1.8	8
80	Functionalized Î±,Î±-Dibromo Esters through Claisen Rearrangements of Dibromoketene Acetals. Organic Letters, 2015, 17, 1054-1057.	2.4	7
81	Oxodealkenylative Cleavage of Alkene C(sp³)â^'C(sp²) Bonds: A Practical Method for Introducing Carbonyls into Chiral Pool Materials. Angewandte Chemie, 2020, 132, 1227-1231.	1.6	5
82	Unified Approach to Furan Natural Products via Phosphineâ€Palladium Catalysis. Angewandte Chemie, 2021, 133, 8956-8963.	1.6	4
83	Phosphineâ€Catalyzed [3 + 2] Annulation: Synthesis of Ethyl 5â€(<i>tert</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 342 Td (â€		4
84	Synthesis of Cyclic Î²-Silylalkenyl Triflates via an Alkenyl Cation Intermediate. Organic Letters, 2018, 20, 5474-5477.	2.4	3
85	Chiral aminophosphines derived from hydroxyproline and their application in alleneâ€"imine [4â€‰+â€‰2] annulation. Journal of Antibiotics, 2019, 72, 389-396.	1.0	3
86	Dealkenylative Alkenylation: Formal Ïƒâ€Bond Metathesis of Olefins. Angewandte Chemie, 2020, 132, 17718-17724.	1.6	3
87	Discussion Addendum for: Phosphine-Catalyzed [4 + 2] Annulation: Synthesis of Ethyl 6-Phenyl-1-tosyl-1,2,5,6-tetrahydropyridine-3-carboxylate. Organic Syntheses, 2019, 96, 110-123.	1.0	1
88	Identifying genes required for the use of pâ€coumarate in coenzyme Q biosynthesis in Saccharomyces cerevisiae. FASEB Journal, 2018, 32, .	0.2	0